

PATENT

Attorney Docket No. 7392/71226

#3  
Amdt. H  
1/15/03**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

SMIT et al.

Art Unit: 1648

Application No.: 08/807,506

Examiner: R. Budens

Filed: February 26, 1997

For: GRADUAL MODIFICATION, SUPER-AGONISTS AND ANTAGONISTS OF  
SIGNAL PROTEINS AND PEPTIDES

December 31, 2002

**AMENDMENT and PETITION FOR EXTENSION OF TIME**Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please enter the following amendments and consider the following remarks.

**IN THE CLAIMS:**

Please amend and/or add claims:

94. (Amended) A method for quantitative structure function analysis research on biologically active proteins or peptides, said method comprising applying a specific chemical modification of selected amino acids to said proteins or said peptides whereby said modification results in said proteins and said peptides having at least one feature selected from the group consisting of enhanced biological activity, enhanced stability, suppressed antigenicity, acquired antagonistic activity, and cell inhibitory activity, said method comprising:

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- a) gradual chemical modification of a protein or peptide, followed by
  - b) monitoring the modification reaction with a mild and sensitive method such as nondenaturing electrophoresis or electrospray mass spectrometry and optionally confirming the overall structural integrity;
  - c) protease treatment;